



# COMMONWEALTH of VIRGINIA

## DEPARTMENT OF FORENSIC SCIENCE

CENTRAL LABORATORY  
A Nationally Accredited Laboratory

700 NORTH 5TH STREET  
RICHMOND, VIRGINIA 23219  
(804) 786-6971

### CERTIFICATE OF INSTRUMENT ACCURACY

INSTRUMENT: Intox EC/IR II  
SERIAL NUMBER: 010550  
CERTIFICATION DATE: September 19, 2013  
DATE RECERTIFICATION DUE: March 18, 2014

The above listed instrument was found to meet all requirements for accuracy and performance established by the Department of Forensic Science. This certification is valid from the above listed certification date until the above listed date for recertification.

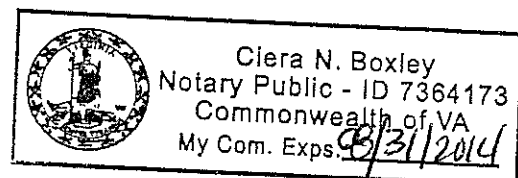
Melissa Kennedy  
Program Manager, Calibration & Training

CITY OF RICHMOND  
COMMONWEALTH OF VIRGINIA

The foregoing was acknowledged before me this 20<sup>th</sup> day of September, 2013 by Melissa Kennedy

  
Ciera N. Boxley, Notary Public

My commission expires: August 31, 2014



DBH  
NJK

**Department of Forensic Science  
Breath Alcohol Section  
Instrument Maintenance History  
1/1/1990 To 9/20/2013**

**Instrument Serial Number: 010550** **As of 20-Sep-13**

<b>Maintenance</b>	<b>Certification</b>	<b>Technician</b>	
<b>Date</b>	<b>Date</b>	<b>Initials</b>	<b>Remarks</b>
19-Sep-13	19-Sep-13	DBH (21250)	FIRMWARE/SOFTWARE UPGRADE. CALIBRATED AND CERTIFIED. REPLACED DRY GAS STANDARD.
04-Apr-13	04-Apr-13	HMS (18910)	REPLACED UPS BACK-UP BATTERY, CERTIFIED
18-Oct-12	18-Oct-12	HMS (18910)	FIRMWARE/SOFTWARE UPGRADE, CALIBRATED AND CERTIFIED.
02-May-12	02-May-12	HMS (18910)	CERTIFIED, REPLACED DRY GAS STANDARD, REPLACED PRINTER.
15-Nov-11	15-Nov-11	DBH (21250)	CERTIFIED
06-Jun-11	06-Jun-11	HMS (18910)	CERTIFIED
30-Dec-10	30-Dec-10	HMS (18910)	REPLACED DRY GAS STANDARD, CERTIFIED
12-Jul-10	12-Jul-10	HMS (18910)	CALIBRATED AND CERTIFIED.
27-Jan-10	27-Jan-10	HMS (18910)	REPLACED DRY GAS STANDARD, CERTIFIED
17-Aug-09	17-Aug-09	HMS (18910)	CALIBRATED AND CERTIFIED.
24-Mar-09	24-Mar-09	HMS (18910)	FIRMWARE/SOFTWARE UPGRADE, CALIBRATED AND CERTIFIED.
13-Nov-08	13-Nov-08	NMJ (22392)	CERTIFIED.
13-Oct-08	13-Oct-08	NMJ (22392)	CALIBRATED, CERTIFIED AND ACCEPTED.

DBH  
NSK

# INTOX EC/IR II Quality Assurance Worksheet

Instrument Serial Number 010550 Worksheet Start Date 9/19/2013  
Location Charlotte CO Jail  
Address 222 Law Lane Charlotte Court House VA 23923  
DFS Technician Donald Hall License No. 21250  
☐ Laboratory ☒ On-Site

## Site Specifications

	Yes	No
1 <b>Secured Environment:</b> Location must not be accessible to the general public.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2 <b>Environment free from contaminants</b>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
3 <b>Dedicated telephone line:</b> The phone line should be used solely by the instrument.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
4 <b>Adequate Ventilation:</b> Enough space must be provided for the instrument and the printer to allow for adequate ventilation.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
5 <b>Stable temperature controls:</b> The instrument should not be exposed to direct sources of temperature variation.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
6 <b>115VAC power source:</b> Whenever possible instrument power circuit should not be shared with refrigerators, copy machines or other high amperage devices.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
7 <b>Room Condition:</b> The site should be free of excessive moisture, heat and dust.	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Old serial no.	New serial no.	Supplies	
E-Seek		Mouthpieces	50
Keyboard		Certificates of Analysis	50
Printer		Operator Worksheet	50
UPS		Other:	

Maintenance (if any)  
Firmware/software upgrade.

Comments (if any)

Instrument Serial Number	010550	Certification Date	9/19/2013
Instrument Barometer (mm HG)	749	Reference Barometer (mm HG)	754
Reference Barometer(RB)Serial #	009110	RB Calibration Due	5/30/2014

<b>Standard (sea level)</b>	<b>PA Target</b>	<b>minimum</b>	<b>maximum</b>	<b>Sample 1</b>	0.245
0.250	0.246	0.238	0.253	<b>Sample 2</b>	0.245
<b>Precision</b>		<b>sample min</b>	<b>sample max</b>	<b>Sample 3</b>	0.244
0.001		0.244	0.245		

<b>Standard (sea level)</b>	<b>PA Target</b>	<b>minimum</b>	<b>maximum</b>	<b>Sample 1</b>	0.148
0.150	0.148	0.143	0.152	<b>Sample 2</b>	0.148
<b>Precision</b>		<b>sample min</b>	<b>sample max</b>	<b>Sample 3</b>	0.148
0		0.148	0.148		

<b>Standard (sea level)</b>	<b>PA Target</b>	<b>minimum</b>	<b>maximum</b>	<b>Sample 1</b>	0.079
0.080	0.079	0.076	0.082	<b>Sample 2</b>	0.079
<b>Precision</b>		<b>sample min</b>	<b>sample max</b>	<b>Sample 3</b>	0.079
0		0.079	0.079		

<b>Standard (sea level)</b>	<b>PA Target</b>	<b>minimum</b>	<b>maximum</b>	<b>Sample 1</b>	0.019
0.020	0.020	0.017	0.023	<b>Sample 2</b>	0.019
<b>Precision</b>		<b>sample min</b>	<b>sample max</b>	<b>Sample 3</b>	0.019
0		0.019	0.019		

all measurements are in g/210L

Estimation of Uncertainty of Measurement and traceability records are located within the Breath Alcohol Section

☒ Calibrated      ☒ Certified      ☒ Replaced dry gas standard (+O-ring)

Dry gas standard Lot No. (with tank no.)      AG316301-18

☒ Measurement Assurance Check      ☒ Run a Breath Test      (Instrument Test)

(successful completion denotes satisfactory condition of the item)

<b>Standard (sea level)</b>	<b>PA Target</b>	<b>minimum</b>	<b>maximum</b>	<b>Sample 1</b>	0.098
0.100	0.099	0.096	0.102	<b>Sample 2</b>	0.098
<b>Precision</b>		<b>sample min</b>	<b>sample max</b>	<b>Sample 3</b>	0.098
0		0.098	0.098		

DFS Technician

*Donald B Hall*

Date

*DBH*  
9/23/13  
9/20/13

Issuing Analyst

*Melvin Kennedy*

Date

9/25/13

Intox EC/IR II QA Worksheet  
Issued by Calibration and Training Program Manager  
Issue Date: 4-March-2013

DFS Document 250-F113  
Revision 6  
Page 2 of 2

D8H

MSK




COMMONWEALTH OF VIRGINIA  
DEPARTMENT OF FORENSIC SCIENCE

CERTIFICATE OF BLOOD ALCOHOL ANALYSIS  
AS DETERMINED BY A CHEMICAL TEST OF THE ACCUSED'S BREATH

NAME OF ACCUSED INSTRUMENT, TEST,	NAME OF COURT DFS
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BREATH ANALYSIS

SAMPLE EXAMINED AND TEST CONDUCTED BY HALL, DONALD, B		AGENCY DFS Central Lab
DFS LICENSE NUMBER 21250	LICENSE EXPIRES 10/01/2014	DATE TEST CONDUCTED 09/19/2013
TEST EQUIPMENT NUMBER 010550		

10:54 EDT

RESULTS: TIME SAMPLE TAKEN \_\_\_\_\_  
0.00

SAMPLE'S ALCOHOL CONTENT \_\_\_\_\_ GRAMS PER 210 LITERS OF BREATH

ATTEST:

I CERTIFY THAT THE ABOVE IS AN ACCURATE RECORD OF THE TEST CONDUCTED; THAT THE TEST WAS CONDUCTED WITH THE TYPE OF EQUIPMENT AND IN ACCORDANCE WITH THE METHODS APPROVED BY THE DEPARTMENT OF FORENSIC SCIENCE; THAT THE TEST WAS CONDUCTED IN ACCORDANCE WITH THE DEPARTMENT'S SPECIFICATIONS; THAT PRIOR TO ADMINISTRATION OF THE TEST THE ACCUSED WAS ADVISED OF HIS RIGHT TO OBSERVE THE PROCESS AND SEE THE BLOOD ALCOHOL READING ON THE EQUIPMENT USED TO PERFORM THE BREATH TEST, AND THAT I POSSESS A VALID LICENSE TO CONDUCT SUCH TEST, GIVEN UNDER MY HAND THIS \_\_\_\_\_ DAY OF \_\_\_\_\_, 20 \_\_\_\_\_.

BREATH TEST OPERATOR
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☐ I HAVE RECEIVED A COPY OF THIS CERTIFICATE OF ANALYSIS \_\_\_\_\_  
SUBJECT'S SIGNATURE

☐ SUBJECT REFUSED TO SIGN FOR COPY OF CERTIFICATE OF ANALYSIS \_\_\_\_\_  
OPERATOR'S SIGNATURE



# IntoxNet MIS Report

Report Generated 19 Sep 2013 at 16:33

DBH

msl

## Test Results

Instrument Serial Number 010550

Test # 000454 Subject Test

Test Location 1 Department of  
Test Date 19 Sep 2013

Test Location 2 Forensic Science  
Test Time 10:48  
Remote/Local Local

Test Location 3  
System Check Passed

Operator's Last Name HALL  
Agency DFS Central Lab

Operator's First Name DONALD

License Number 21250  
Operator's Middle Initial B

Card Serial Number 121250

Effective Date 10/01/2012

Expiration Date 10/01/2014

Subject's Last Name INSTRUMENT

Subject's First Name TEST

Subject's Middle Initial

Subject's Date of Birth 00/00/0000

Subject's Sex Male

Driver's License Number

Driver's License Expiration 00/00/0000

Driver's License State

Court Name DFS

End Date 19 Sep 2013 End Time 10:55

Result Time 10:54

Result Date 19 Sep 2013 Result 0.00

Data Type DIAG

Sample Value Pass

Sample Time 10:48

Data Type BLK

Sample Value 0.000

Sample Time 10:49

Data Type CHK

Sample Value 0.099

Sample Time 10:50

Data Type BLK

Sample Value 0.000

Sample Time 10:51

Data Type SUBJ

Sample Value 0.000

Sample Time 10:52

Data Type BLK

Sample Value 0.000

Sample Time 10:53

Data Type SUBJ

Sample Value 0.000

Sample Time 10:54

Data Type BLK

Sample Value 0.000

Sample Time 10:55

Standard Type Dry Gas Std

Standard Value 0.099

Standard Lot Number AG206601-15

Standard Expiration Date 03/06/2014

Tank Pressure 634

Barometric Pressure 749 mmHg

Blow Sample Number 1 Blow Duration 3.47 sec

Blow Volume 1874 cc End-of-Blow Time 10:52

Blow Sample Number 2 Blow Duration 3.39 sec

Blow Volume 1810 cc End-of-Blow Time 10:54

Tamper Evident Stamp 712d8943

Test Status Code 0

Test Status Success

**Intox EC/IR-II: Software Version**

*Department of Forensic Science*

Serial Number: 010550

System Date: 09/19/2013

System Time: 11:20 EDT

Software Version: VS00333-K

Software CRC: 56745BCA

Firmware Version: VS00171-CL

Firmware CRC: 7107756B

DBH

WHL

DBH

WJH

# **Intox EC/IR-II: Calibration**

*Department of Forensic Science*

Serial Number: 010550      Test Number: 455

Test Date: 09/19/2013      Test Time: 11:23 EDT

Dry Gas Target: 0.099

Lot Number: 0651210013-05      Exp Date: 04/01/2014

Tank Pressure: 424 psi      Barometric Pressure: 749 mmHg

System Check: *Passed*

Test	g/210L	Time
BLK	0.000	11:24
CAL	0.099	11:25

Test Status: *Success*

Calibration CRC: 95BC3BE2



DBH

WJ

**INTOX EC/IR-II: Certification**

*Department of Forensic Science*

Serial Number: 010550      Test Number: 456  
Test Date: 09/19/2013      Test Time: 11:28 EDT

Technician Initials: DBH

Dry Gas Target: 0.246

Lot Number: 2961225012-10      Exp Date: 11/01/2014

Tank Pressure: 262 psi      Barometric Pressure: 749 mmHg  
System Check: Passed

Test	g/210L	Time
DIAG	Pass	11:29
BLK	0.000	11:30
CHK	0.245	11:30
BLK	0.000	11:32
CHK	0.245	11:33
BLK	0.000	11:35
CHK	0.244	11:36
BLK	0.000	11:37

**Success**

Standard Value (at sea level): 0.250 g/210L

Certification Status: Continued

DBH

**Intox EC/IR-II: Certification**

MSK

Department of Forensic Science  
Serial Number: 010550      Test Number: 457  
Test Date: 09/19/2013      Test Time: 11:40 EDT

Technician Initials: DBH  
Dry Gas Target: 0.148  
Lot Number: 06512150I4-07      Exp Date: 04/01/2014  
Tank Pressure: 71 psi      Barometric Pressure: 749 mmHg  
System Check: Passed

Test	g/210L	Time
DIAG	Pass	11:41
BLK	0.000	11:42
CHK	0.148	11:42
BLK	0.000	11:44
CHK	0.148	11:45
BLK	0.000	11:46
CHK	0.148	11:47
BLK	0.000	11:48

**Success**

Standard Value (at sea level): 0.150 g/210L

Certification Status: Continued

**Intox EC/IR-II: Certification**

*Department of Forensic Science*

Serial Number: 010550      Test Number: 458  
Test Date: 09/19/2013      Test Time: 11:51 EDT

Technician Initials: DBH

Dry Gas Target: 0.079

Lot Number: 0651208012-03      Exp Date: 04/01/2014

Tank Pressure: 232 psi      Barometric Pressure: 749 mmHg

System Check: Passed

Test	g/210L	Time
DIAG	Pass	11:51
BLK	0.000	11:52
CHK	0.079	11:53
BLK	0.000	11:54
CHK	0.079	11:55
BLK	0.000	11:56
CHK	0.079	11:57
BLK	0.000	11:58

**Success**

Standard Value (at sea level): 0.080 g/210L

Certification Status: Continued

DBH

WHL

# **Intox EC/IR-II: Certification**

*Department of Forensic Science*

Serial Number: 010550      Test Number: 459  
Test Date: 09/19/2013      Test Time: 12:01 EDT

Technician Initials: DBH

Dry Gas Target: 0.020

Lot Number: 0651202011-05      Exp Date: 04/01/2014

Tank Pressure: 134 psi      Barometric Pressure: 749 mmHg

System Check: Passed

Test	g/210L	Time
DIAG	Pass	12:01
BLK	0.000	12:02
CHK	0.019	12:03
BLK	0.000	12:04
CHK	0.019	12:05
BLK	0.000	12:06
CHK	0.019	12:07
BLK	0.000	12:08

## **Success**

Standard Value (at sea level): 0.020 g/210L

Certification Status: Success

DSH

**Intox EC/IR-II: Accuracy Check**

*Department of Forensic Science*

Serial Number: 010550      Test Number: 460

Test Date: 09/19/2013      Test Time: 12:11 EDT

Dry Gas Target: 0.296

Lot Number: AG322702-04      Exp Date: 08/15/2015

Tank Pressure: 360 psi      Barometric Pressure: 749 mmHg

System Check: *Passed*

Test	g/210L	Time
BLK	0.000	12:12
CHK	0.298	12:13
BLK	0.000	12:15
CHK	0.297	12:15
BLK	0.000	12:17
CHK	0.297	12:18

Test Status: *Success*

Calibration CRC: 95BC3BE2

*MSL*

**Intox EC/IR-II: Accuracy Check**

*Department of Forensic Science*

Serial Number: 010550      Test Number: 461

Test Date: 09/19/2013      Test Time: 12:22 EDT

Dry Gas Target: 0.099

Lot Number: AG316301-18      Exp Date: 06/12/2015

Tank Pressure: 1120 psi      Barometric Pressure: 749 mmHg

System Check: *Passed*

Test	g/210L	Time
BLK	0.000	12:22
CHK	0.098	12:23
BLK	0.000	12:25
CHK	0.098	12:26
BLK	0.000	12:27
CHK	0.098	12:28

Test Status: *Success*

Calibration CRC: 95BC3BE2

DBH

WHL

DBH  
Nsk

COMMONWEALTH OF VIRGINIA  
DEPARTMENT OF FORENSIC SCIENCE




DBH  
9/23/13

CERTIFICATE OF BLOOD ALCOHOL ANALYSIS  
AS DETERMINED BY A CHEMICAL TEST OF THE ACCUSED'S BREATH

NAME OF ACCUSED <b>INSTRUMENT, TEST,</b>	NAME OF COURT <b>DFS</b>
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BREATH ANALYSIS

SAMPLE EXAMINED AND TEST CONDUCTED BY <b>HALL, DONALD, B</b>		AGENCY <b>DFS Central Lab</b>
DFS LICENSE NUMBER <b>21250</b>	LICENSE EXPIRES <b>10/01/2014</b>	DATE TEST CONDUCTED <b>09/19/2013</b>
TEST EQUIPMENT NUMBER <b>010550</b>		

RESULTS: TIME SAMPLE TAKEN 12:38 EDT  
SAMPLE'S ALCOHOL CONTENT 0.00 GRAMS PER 210 LITERS OF BREATH

ATTEST:

I CERTIFY THAT THE ABOVE IS AN ACCURATE RECORD OF THE TEST CONDUCTED; THAT THE TEST WAS CONDUCTED WITH THE TYPE OF EQUIPMENT AND IN ACCORDANCE WITH THE METHODS APPROVED BY THE DEPARTMENT OF FORENSIC SCIENCE; THAT THE TEST WAS CONDUCTED IN ACCORDANCE WITH THE DEPARTMENT'S SPECIFICATIONS; THAT PRIOR TO ADMINISTRATION OF THE TEST THE ACCUSED WAS ADVISED OF HIS RIGHT TO OBSERVE THE PROCESS AND SEE THE BLOOD ALCOHOL READING ON THE EQUIPMENT USED TO PERFORM THE BREATH TEST, AND THAT I POSSESS A VALID LICENSE TO CONDUCT SUCH TEST, GIVEN UNDER MY HAND THIS \_\_\_\_\_ DAY OF \_\_\_\_\_, 20\_\_\_\_\_.

BREATH TEST OPERATOR
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☐ I HAVE RECEIVED A COPY OF THIS CERTIFICATE OF ANALYSIS \_\_\_\_\_  
SUBJECT'S SIGNATURE

☐ SUBJECT REFUSED TO SIGN FOR COPY OF CERTIFICATE OF ANALYSIS \_\_\_\_\_  
OPERATOR'S SIGNATURE



# IntoxNet MIS Report

Report Generated 19 Sep 2013 at 16:32

DBH  
WJL

## Test Results

Instrument Serial Number 010550

Test # 000462 Subject Test

Test Location 1 Department of  
Test Date 19 Sep 2013

Test Location 2 Forensic Science  
Test Time 12:31  
Remote/Local Local

Test Location 3  
System Check Passed

Operator's Last Name HALL  
Agency DFS Central Lab

Operator's First Name DONALD

Operator's Middle Initial B  
License Number 21250

Card Serial Number 121250

Effective Date 10/01/2012

Expiration Date 10/01/2014

Subject's Last Name INSTRUMENT

Subject's First Name TEST

Subject's Middle Initial

Subject's Date of Birth 00/00/0000

Subject's Sex Male

Driver's License Number

Driver's License Expiration 00/00/0000

Driver's License State

Court Name DFS

End Date 19 Sep 2013 End Time 12:39

Result Time 12:38

Result Date 19 Sep 2013 Result 0.00

Data Type DIAG

Sample Value Pass

Sample Time 12:32

Data Type BLK

Sample Value 0.000

Sample Time 12:32

Data Type CHK

Sample Value 0.098

Sample Time 12:33

Data Type BLK

Sample Value 0.000

Sample Time 12:34

Data Type SUBJ

Sample Value 0.000

Sample Time 12:35

Data Type BLK

Sample Value 0.000

Sample Time 12:36

Data Type SUBJ

Sample Value 0.000

Sample Time 12:38

Data Type BLK

Sample Value 0.000

Sample Time 12:39

Standard Type Dry Gas Std

Standard Value 0.099

Standard Lot Number AG316301-18

Standard Expiration Date 06/12/2015

Tank Pressure 1120

Barometric Pressure 749 mmHg

Blow Sample Number 1 Blow Duration 3.43 sec

Blow Volume 1803 cc End-of-Blow Time 12:35

Blow Sample Number 2 Blow Duration 3.50 sec

Blow Volume 1893 cc End-of-Blow Time 12:38

Tamper Evident Stamp 9b99a087

Test Status Code 0

Test Status Success